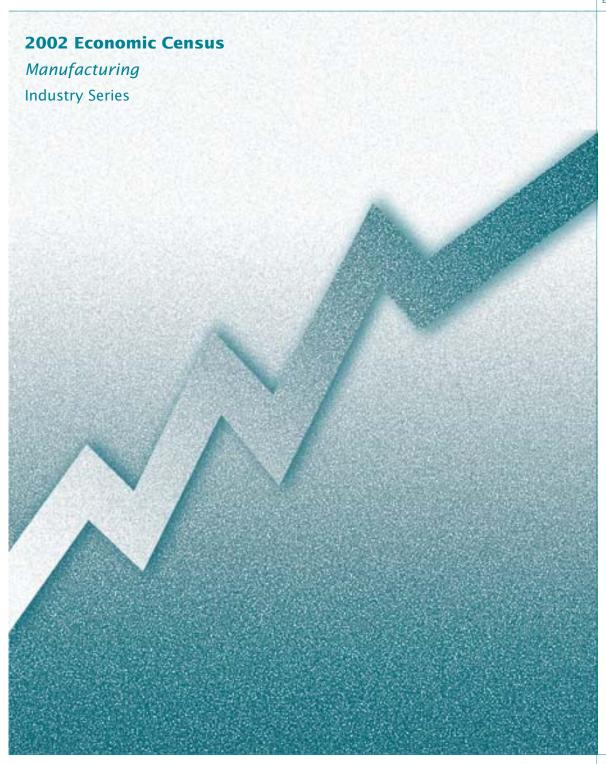
# Construction Machinery Manufacturing: 2002

Issued September 2004

EC02-311-333120





Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



## **CONTENTS**

	duction to the Economic Census	v ix
Table	es	
1. 2. 3. 4. 5. 6a. 6b. 7.	Historical Statistics for the Industry: 2002 and Earlier Years Industry Statistics for Selected States: 2002 Detailed Statistics by Industry: 2002 Industry Statistics by Employment Size: 2002 Industry Statistics by Primary Product Class Specialization: 2002 Products Statistics: 2002 and 1997 Product Class Shipments for Selected States: 2002 and 1997 Materials Consumed by Kind: 2002 and 1997	1 2 3 4 5 6 8
Appe	ndixes	
A. B. C. D. E. F.	Explanation of Terms NAICS Codes, Titles, and Descriptions Methodology Geographic Notes Metropolitan and Micropolitan Statistical Areas Comparability of Product Classes and Product Codes: 2002 to 1997	A-1 B-1 C-1  F-1

-- Not applicable for this report.

## Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All em	ployees	Pro	duction work	kers		Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333120, Construction machinery											
manufacturing2002	714	803	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	419 624
2001	N	N	67 129	2 753 485	43 731	85 565	1 539 929	8 373 518	12 095 538	20 587 760	399 733
2000	N	N	72 410	2 913 266	48 649	97 054	1 732 401	9 092 622	13 870 799	22 978 686	499 580
1999	N	N	72 176	2 923 783	48 520	97 259	1 717 093	8 462 693	13 441 165	21 920 703	572 739
1998	N	N	74 353	3 058 775	50 207	101 370	1 799 088	10 503 142	13 867 808	24 022 676	584 693
1997	723	786	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	492 550

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establ	ishments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
333120, Construction machinery manufacturing												
United States.  Alabama .  Arizona .  California .  Florida .  Georgia .  Idaho .  Illinois .  Indiana .  Kansas .  Kentucky	1 -5 4 6 7 2 - 1 -	803 10 7 65 25 14 9 53 29 22	355 2 4 16 8 7 4 27 9	57 890 622 270 926 522 647 339 8 928 1 083 1 940 1 154	2 520 025 29 094 12 353 38 619 27 560 12 199 511 921 43 147 77 104 42 571	36 124 448 216 610 365 424 213 5 026 690 1 351 866	70 360 785 380 1 231 685 892 459 11 288 1 135 2 921 1 266	1 378 045 17 710 8 667 22 529 11 006 15 925 7 006 260 839 24 104 39 494 26 920	7 639 061 14 664 23 812 87 241 45 166 129 611 18 925 1 495 034 91 886 292 974 77 479	11 275 344 142 855 37 470 74 037 58 090 210 107 34 048 2 755 851 153 829 361 379 183 041	19 189 376 166 510 61 368 161 418 104 593 342 515 53 201 4 462 918 249 515 661 499 273 038	419 624 1 883 324 5 492 4 486 12 415 1 157 126 152 5 443 9 532 10 943
Maine Michigan Minnesota New Mexico New York North Carolina Ohio Oklahoma Oregon Pennsylvania	- - 2 3 - 1 3 6 -	4 27 32 6 28 21 49 23 19 33	1 17 14 1 10 15 23 12 5	225 1 103 1 574 106 714 2 562 2 018 2 573 679 3 339	9 221 44 043 70 673 4 232 29 097 110 608 75 900 95 750 30 493 154 196	158 783 983 85 467 1 763 1 383 1 584 386 2 124	333 1 560 1 862 176 821 3 298 2 821 3 060 770 4 291	5 428 27 363 35 616 2 870 16 373 64 911 44 011 47 237 15 116 82 218	47 506 134 182 139 360 7 127 59 194 595 775 233 509 274 651 58 261 340 330	31 388 142 996 233 546 8 274 74 593 1 455 401 203 848 287 447 73 491 585 811	71 408 280 475 396 477 15 548 133 012 2 000 065 459 078 552 798 131 793 921 006	1 778 5 298 15 616 275 4 980 16 009 8 006 13 584 6 098 18 275
South Dakota Tennessee Texas Utah Virginia Washington Wisconsin	- 2 3 3 2 2	14 19 47 7 11 23 53	10 9 18 3 6 5 32	1 211 2 328 2 721 128 443 372 5 989	41 777 95 878 103 245 4 071 16 666 15 792 287 563	825 1 678 1 749 93 308 211 3 398	1 712 3 183 3 591 158 601 433 5 773	24 523 60 777 59 549 2 462 8 894 7 718 147 718	119 415 265 178 162 727 16 884 37 206 38 511 744 317	140 331 482 548 272 440 9 722 62 143 33 280 907 251	266 722 743 045 418 430 27 009 99 206 70 540 1 673 468	2 559 15 712 12 917 1 323 2 507 2 376 40 220

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333120, Construction machinery manufacturing	
Companies <sup>1</sup> number.	714
All establishments <sup>2</sup>	803 448 241 114
All employees³         number           Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	57 890 3 332 353 2 520 025 812 328
Production workers, average for year	36 124 35 834 37 019 36 441 35 120
Production worker hours	70 360 1 378 045
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	11 275 344 9 620 949 1 380 125 51 180 75 897 147 193
Quantity of electricity purchased for heat and power     1,000 kWh.       Quantity of electricity generated less sold for heat and power     1,000 kWh.	1 546 360 D
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	19 189 376 16 067 160 1 131 232 1 990 984 1 811 080 11 978 167 926
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	93 16 588 722 16 067 160 521 562
Coverage ratiopercent.	97
Value added	7 639 061
Total inventories, beginning of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	3 468 379 1 402 489 916 680 1 149 210
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	3 182 211 1 259 680 784 518 1 138 013
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	5 942 761 419 624 84 567 335 057 13 753 39 381 281 923 558 873 5 803 512
Depreciation charges during year	389 089
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	133 460 61 148 72 312
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup> percent.  Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000.  Communications services <sup>4</sup> \$1,000.  Legal services <sup>4</sup> \$1,000.  Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000.  Advertising and promotional services <sup>4</sup> \$1,000.  Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000.  Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000.  Management consulting and administrative services <sup>4</sup> \$1,000.  Taxes and license fees <sup>4</sup> \$1,000.  All other expenses <sup>4</sup> \$1,000.	778 372 89 91 736 31 774 31 998 7 851 44 344 26 437 8 002 40 691 29 420 466 119

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	P	roduction worke	ers		Total	Total	Total
		All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
333120, Construction machinery manufacturing											
All establishments  Establishments with —  1 to 4 employees. 5 to 9 employees. 10 to 19 employees 20 to 49 employees 100 to 249 employees 50 to 99 employees 100 to 249 employees 500 to 999 employees 1,000 to 2,499 employees 2,500 employees 2,500 employees or more	7 4 2 2 2	803 223 103 122 144 97 63 25 18 8	57 890 499 706 1 689 4 537 6 800 9 707 8 392 11 897 13 663	2 520 025 19 578 30 173 67 220 170 581 261 317 377 411 358 806 550 998 683 941	36 124 328 432 1 060 2 981 4 652 6 466 5 708 7 189 7 308	70 360 570 857 2 011 5 967 9 320 12 293 11 290 13 110 14 942	1 378 045 10 995 16 366 35 969 94 328 149 556 211 396 201 517 306 517 351 401	7 639 061 55 277 71 741 137 086 429 307 595 685 1 012 030 1 331 102 1 587 745 2 419 088	58 823 97 065 183 108 479 065 763 507 1 624 695 1 997 062 2 416 005 3 656 014	19 189 376 111 506 169 454 322 024 909 002 1 367 794 2 703 502 3 301 380 4 099 765 6 204 949	419 624 6 167 7 218 11 142 28 265 39 294 81 332 43 220 58 268 144 718
Administrative records <sup>4</sup>	9	311	1 677	71 234	1 070	2 076	39 721	147 194	225 951	373 138	16 745

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333120	Construction machinery manufacturing	803	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	419 624
3331201	Power cranes, excavation loaders, dozers, construction tractors, off- highway trucks and trailers, mixers, payers, backhoes, and related										
3331208	equipment Other construction machinery and	186	34 409	1 630 991	20 851	41 556	868 137	5 660 082	8 572 122	14 474 410	293 758
	equipment (excluding parts)	116	11 108	391 256	7 078	13 228	219 366	892 068	1 463 009	2 395 893	56 659
3331209	Parts for construction machinery and equipment, sold separately	85	8 789	354 178	5 904	11 259	212 056	790 063	858 854	1 644 459	35 152

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Products Statistics: 2002 and 1997 Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product s	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
333120	Construction machinery manufacturing	N N	X	X	16 588 722 19 287 496
3331201	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment	N	Х	×	11 913 788
33312011	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts)	N N	X X	x x	13 693 995 2 561 640
3331201110	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts) 2002.	N 55	x x	x x	3 035 538 2 561 640
33312012	Mixers, pavers, and related equipment (excluding parts)	57 N	X	X X	3 035 538 1 145 807
3331201220	Mixers, pavers, and related equipment (excluding parts) <sup>1</sup>	N 66	X	X X X X	1 261 445 1 145 807
33312013	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (excluding parts)	76 N	×	X X X	1 261 445 948 082
3331201330	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (excluding parts) <sup>1</sup>	N 27 34	X X X	×	1 288 613 948 082 1 288 613
33312014	Tractor shovel loaders (skid steer, wheel, and crawler, and integral-design loader-backhoes)	N	X	x	1 288 115
3331201440	Tractor shovel loaders (skid steer, wheel, and crawler, and integral-design loader-backhoes) <sup>1</sup>	N 13	x x	x x	2 829 877 1 288 115
33312015	Construction wheel and crawler tractors, dozers, and self- propelled log skidders	22 N	X X	X X	2 829 877 4 106 899
3331201550	Construction wheel and crawler tractors, dozers, and self- propelled log skidders¹	N 21	X X	x x	2 678 905 4 106 899
33312016	Motor graders and light maintainers, including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-	22	Х	Х	2 678 905
3331201660	propelled continuous ditchers and trenchers (except parts)	N N	X X	X X	1 313 075 2 068 782
33312017	Construction machinery for mounting on tractors and other	35 56	X	X	1 313 075 2 068 782
3331201770	attachments)	N N	X	X X	526 143 525 023
	prime movers (excluding parts, winches, and snow clearing attachments) <sup>1</sup>	54 47	X	X X	526 143 525 023
3331201Y	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment, nsk	N N	X X	X X	24 027 5 812
3331201YWV	Motor graders and light maintainers, rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers, except parts	N N	X	X X	24 027 5 812
3331208	Other construction machinery and equipment (excluding parts)	N N	X	x	1 879 437
33312081	Other construction machinery and equipment (excluding parts)	N N	x x	x x	2 122 257 1 867 121
3331208110	Portable crushing plants, screening plants, washing plants, and combination plants (excluding parts)	N 29	X X	x x	2 094 867 153 004
3331208115	Snow clearing attachments for mounting on tractors or trucks (except rotary snow blowers), including snow plows, etc. (excluding parts)	21	X X	x x	168 287 276 069
3331208126	Commercial brush, limb, and log chippers for waste wood reduction (excluding parts)	32	x x	x x	272 596 200 790
3331208127	Log splitters (excluding parts)	13 4	X X	X X X	130 305 D
3331208135	Dredging machinery, hydraulic and other types (excluding parts)	5	X	x	13 023 15 011
3331208144	1997	6 5 7	X X X	X X X	24 431 D 87 424
3331208148	Vertical earth augers and power posthole diggers, excluding water well and blasthole drills (excluding parts)	15 17	×	×	D 34 848
3331208152	Horizontal earth boring machines and accessories (excluding parts)	12	×	×	104 378 176 916
3331208156	Pile driving equipment (including air, steam, and diesel pile hammers and impact pile and vibratory driver extractors) (excluding parts)	11	×	×	35 594
3331208199	All other construction machinery and equipment, complete units	81	x x	x x	21 560 815 400
3331208Y	Other construction machinery and equipment (excluding parts), nsk	67 N	x x	x x	1 165 477 12 316
	1997	Ň	â	χĺ	27 390

See footnotes at end of table.

#### Products Statistics: 2002 and 1997—Con. Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
333120 3331208	Construction machinery manufacturing — Con.  Other construction machinery and equipment (excluding parts)  — Con.				
3331208Y	Other construction machinery and equipment (excluding parts), nsk—Con.				
3331208YWV	Other construction machinery and equipment (excluding parts), nsk	N N	××	×	12 316 27 390
3331209	Parts for construction machinery and equipment, sold separately	N N	×	×	2 263 373 2 968 564
33312091	Parts for power cranes, draglines, and shovels (excavators) (including surface mining equipment) (sold separately)	N	х	x	617 699
3331209111	Parts for power cranes, draglines, and shovels (excavators) (including surface mining equipment) (sold separately)	N 51	X X	X X	538 500 617 699
33312092	Parts for contractors' off-highway wheel tractors, crawler tractors, and tractor shovel loaders (sold separately)	47 N	X X	X X	538 500 618 403
3331209245	Parts for contractors' off-highway wheel tractors, crawler tractors, and tractor shovel loaders (sold separately)	N	X	Х	940 000
33312093	Parts for other construction machinery	34 41 N	X X X	X X X	618 403 940 000 977 437
3331209352	Parts for mixers, pavers, and related equipment (sold separately)	N 40	X X	x	1 421 630 158 914
3331209353	Parts for off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (sold separately)	44 26	x x	x x	211 634 114 932
3331209366	Parts for motor graders and light maintainers, rollers and compactors, rough-terrain forklifts, scraper bowls, and self-	23	â	x	130 627
	propelled continuous ditchers and trenchers (sold separately)	38 42	X X	X	177 459 179 054
3331209377	Parts for construction machinery (except winches) for				
3331209388	separately)	38 30	X	X	160 648 237 747
	(except winches, hoists, and railroad rolling stock) (sold separately)	74 86	×	X X	365 484 662 568
3331209Y	Parts for construction machinery and equipment, sold separately, nsk	N N	×	X	49 834 68 434
3331209YWV	Parts for construction machinery and equipment, sold separately, nsk	N N N	×	×	49 834 68 434
333120W	Construction machinery manufacturing, nsk, total	N	х	х	532 124
333120WY	1997	N N N	X X X	X X X	502 680 532 124 502 680
333120WYWW	Construction machinery manufacturing, nsk, for nonadministrative-record establishments	N N	×	X	257 343 313 717
333120WYWY	Construction machinery manufacturing, nsk, for administrative-record establishments	N N N	X X	X	274 781 188 963

<sup>&</sup>lt;sup>1</sup>For additional detail, see Current Industrial Report MA333D, Construction Machinery.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3331201	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment	
	United States	11 913 788
	1997 California 2002.	11 913 788 13 693 995 13 347
	1997 Florida	38 223 73 871
	1997 Georgia	20 361 322 784
	1997 Idaho	332 111 6 119
	1997 Illinois 2002.	3 534 315
	1997 Indiana	138 665
	1997.   Kansas	N 481 286
	1997. Michigan	424 762 67 846
	1997. Minnesota	79 680 314 712
	1997 New York	559 214 60 546
	1997 North Carolina	73 329 1 551 579
	1997   Ohio	384 05 173 640
	1997	389 697
	Oklahoma	360 984 313 841
	Oregon	68 34 <sup>-</sup> 75 477
	Pennsylvania	358 159 969 672
	South Dakota	143 729 165 544
	Texas	161 279 289 443
	Washington	18 050 42 552
	Wisconsin	622 397 996 283
331208	Other construction machinery and equipment (excluding parts)	
331200	United States	1 879 437
	1997 California	2 122 25 29 66
	1997.   Idaho	17 82i 34 34
	1997. Illinois 2002.	34 34 1 22 75
	1997.   Indiana 2002.	76 89- 34 57:
	1997	40 38
	Kansas	52 53 67 81
	Michigan	175 22 33 96
	Minnesota	43 35 50 35
	New York	28 03 14 70
	Ohio	110 02 105 09
	Oklahoma	38 81
	Oregon	10 07 13 77
	Pennsylvania	166 69 72 56
	Texas	67 25 53 33
	Washington	10 80 59 92
	Wisconsin	324 55 224 13
331209	Parts for construction machinery and equipment, sold separately	
331209	United States	2 263 37
	1997 California 2002.	2 968 56 53 19
	2002   1997   Florida   2002	14 06: 2 19:
	1997	1
	Illinois	450 57 867 06
	Indiana	50 82 55 57
	Kansas	45 62 96 62
	Minnesota	21 20 81 83
	New York	22 61 18 31
	North Carolina	82 74
	Ohio	115 80 115 41
	Oklahoma 2002	109 05 86 72

See footnotes at end of table.

## Table 6b. Product Class Shipments for Selected States: 2002 and 1997—Con.

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3331209	Parts for construction machinery and equipment, sold separately—Con.	
	United States—Con.  Oregon	15 878 16 059 143 271 100 172 34 994 51 168 89 721 102 661 28 802
	Virginia     2002.       Washington     2002.       Wisconsin     1997       Wisconsin     2002.       1997     1997	28 802 N 15 975 25 538 423 596 327 537

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333120	Construction machinery manufacturing		_
00900001	Total materials	×	9 620 949 11 268 087
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X X X	445 352 724 526
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X X	181 842 267 012
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	123 872
33291207	Fluid power valves (hydraulic and pneumatic)	X	189 571 214 807
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X X X X X	277 006 152 985 173 649
33200099	Fabricated structural metal products (excluding forgings)	X	459 570
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.)	X X X	700 075 31 614
33200065	All other fabricated metal products (excluding forgings, castings, metal stampings, bolts, nuts,	X	N
	washers, rivets, screw machine products, and structural metal products)	X X	216 404 224 020
332000AC	Metal stampings	X	53 199 148 829
33210000	Forgings	\$	119 509 N
33151001	Iron and steel castings (rough and semifinished)	X X X X X	499 447 678 708
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	x	23 639
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	19 965 363 894
33120016	Steel sheet and strip (including tinplate)	X X X X	697 563 145 154
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	N 34 346
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars,	X	165 503
33120091	bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	122 955 138 306
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	10 781 8 892
33361803			
33631200	Diesel engines and parts specially designed for diesel engines	X X X X X	516 600 N
	1997	ŝ	67 669 N
33531201	Electric motors and generators	â	120 432 194 378
33299105	Ball bearings (mounted or unmounted)	×	28 610 85 445
33299103	Roller bearings (mounted or unmounted)	\$	39 070 74 703
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X X X X	172 403 261 268
32621003	Pneumatic tires and inner tubes	x	231 224
33639909	1997   Wheels, motor vehicle	X	N 47 140
33600001	Purchased chassis for vehicles (excluding passenger cars)	X X X	176 995 N
33635003	Transmissions and parts		245 411
33632200	In 1997 Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X X X	N 145 351
33633000	Shocks, struts, and other suspension equipment and parts.	X X X	N 66 255 N
32622001	Rubber and plastics hose and belting	X	77 665
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X X X	96 770 42 096
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X X X	56 612 37 326 N
001900B1	Electrical transmission, distribution, and control equipment		170 197
00970099	All other materials and components, parts, containers, and supplies	X X X X X	336 997 2 447 156
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	5 224 128 1 789 979 524 161

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.